

**ABSTRACT OF THE DISCLOSURE**

Monolithic circuit chips are disclosed which are particularly adapted for use with barcode reading, video and photographic systems. The monolithic circuit chip can include a sensor array, digitizer and decoder. The monolithic circuit chip can

5 alternatively include an imager circuit, radio frequency circuit and memory. The memory can be one of ferroelectric random access memory (FRAM), E<sup>2</sup>PROM, or Flash memory. The monolithic circuit chip can be formed using complementary metal oxide semiconductor (CMOS) techniques.

PROVISIONAL DRAFT